

Resource Summary Report

Generated by [nidm-terms](#) on Aug 14, 2026

MSP2262

RRID:Addgene_70703

Type: Plasmid

Proper Citation

RRID:Addgene_70703

Plasmid Information

URL: <http://www.addgene.org/70703>

Proper Citation: RRID:Addgene_70703

Insert Name: mammalian codon-optimized Staphylococcus aureus dCas9

Organism: S. aureus

Bacterial Resistance: Chloramphenicol

Defining Citation: [PMID:26524662](#)

Vector Backbone Description: Backbone Marker:EMD Millipore; Vector Backbone:pACYCDuet-1; Vector Types:Bacterial Expression, CRISPR; Bacterial Resistance:Chloramphenicol

Comments: For this plasmid, the sequence of the sgRNA spacer is GGGCACGGGCAGCTTGCCGG. The length of the sgRNA (not including the spacer sequence) is 84 nucleotides, where this truncated repeat/anti-repeat sgRNA is similar to that described previously by Ran et al., Nature 2015 (PubMed ID: 25830891) and conveys higher activity than the canonical full length sgRNA.

Plasmid Name: MSP2262

Relevant Mutation: D10A & H557A in SaCas9

Record Creation Time: 20220422T222437+0000

Record Last Update: 20260808T082052+0000

Ratings and Alerts

No rating or validation information has been found for MSP2262.

No alerts have been found for MSP2262.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Backstrom JR, et al. (2020) Optimization of S.??aureus dCas9 and CRISPRi Elements for a Single Adeno-Associated Virus that Targets an Endogenous Gene. Molecular therapy. Methods & clinical development, 19, 139.

Fujita T, et al. (2018) enChIP systems using different CRISPR orthologues and epitope tags. BMC research notes, 11(1), 154.